

**Protection device against the bursting of an insulator of a high-voltage power circuit breaker**

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Abrégé

A protection device against the bursting of an insulator of a high-voltage power circuit breaker, the insulator being used for holding a switching-on resistor, being subjected to the internal pressure of an insulating or extinguishing gas, and having a diaphragm which bursts in the event of an unacceptable overpressure of the insulating or extinguishing gas and in consequence releases an opening in the insulator. In order to prevent the insulator bursting as a result of an unacceptable temperature increase even in the case of a relatively small current which overloads the switching-on resistor, a tripping element is arranged in the internal space of the insulator, in the direct vicinity of a bursting disc which acts as a diaphragm. A locking device holds the tripping element in a predetermined position at predetermined temperature values of the switching-on resistor. If the predetermined temperature values are exceeded, the tripping element is unlocked, is accelerated in the direction of the bursting disc, and the bursting disc is destroyed. The opening which is closed by the bursting disc is preferably located in the closure cover of the insulator.

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